

04-10-01

OIEP

## RAW SEQUENCE LISTING

DATE: 03/30/2001

PATENT APPLICATION: US/09/804,472

TIME: 11:17:56

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\I804472.raw

4 <110> APPLICANT: SHAO, Wei et al.  
6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
8 AND USES THEREOF  
10 <130> FILE REFERENCE: CL001163  
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/804,472  
C--> 12 <141> CURRENT FILING DATE: 2001-03-13

ENTERED

12 <160> NUMBER OF SEQ ID NOS: 6  
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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17 <211> LENGTH: 3625  
18 <212> TYPE: DNA  
19 <213> ORGANISM: Human  
21 <400> SEQUENCE: 1

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23 ctgtgttgc gacgagggga tggagaaat gtcactttct ttttaagcta gcaagctttt 120  
24 tctttttctt tttcttcttc tatttaaaaa ttctaatacat ggatgcttct tccgacctt 180  
25 atttgcttta tgacggggga ggagacaata ttcccttgag ggaattacat aaaagaggaa 240  
26 ctcatataac aatgacaaat ggaggcagca ttaacagttc tacacattta ctggatcttt 300  
27 tggatgaacc aattccaggt gttggtacat atgatgattt ccatactatt gattgggtgc 360  
28 gagaaaaatg taaagacaga gaaaggcata gacggatcaa cagcaaaaag aaagaatcag 420  
29 catgggaaat gacaaaaagt ttgtatgatg cgtgggtcagg atggctagta gtaacactaa 480  
30 caggattggc atcaggggca ctggccggat taatagacat tgctgccgat tggatgactg 540  
31 acctaaagga gggcatttgc cttagtgctg tgtggtacaa ccacgaacag tgctgttggg 600  
32 gatctaataa aacaacattt gaagagaggg ataatgtcc acagtggaaa acatgggcag 660  
33 aattaatacat aggtcaagca gaggttcctg gttcttataat catgaactac ataattgata 720  
34 tcttctgggc cttaggtttt gcctttcttg cagtttccct ggtaaaggta tttgctccat 780  
35 atgcctgtgg ctctggaatt ccagagatta aaactatttt aagtggattc atcatcagag 840  
36 gttacttggg aaaatggact ttaattgatta aaaccatcac attagtctct gctgtggcat 900  
37 caggtttgag ttttagaaaa gaagggtccc tggatcatgt tgctgttgc tgcggaaata 960  
38 tcttttccca cctctttcca aagtatatga caaacgaagc taaaaaaagg gaggtgctat 1020  
39 cagctgcctc agctgcaggg gtttctgtag cttttgggtg accaattgga ggagttcttt 1080  
40 ttagcctgga agaggttagc tattattttc ctctcaaaac tttatggaga tcattttttg 1140  
41 ctgctttagt ggctgcattt gttttgaggt ccatcaatcc atttggtaac agcgtctctg 1200  
42 tcttttttta tgtggagtat catacaccat ggtacctttt tgaactgttt cctttttatt 1260  
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45 cagccattac tgctgtgata gccttcccta atccatacac taggctaaac accagtgaac 1440  
46 tgatcaaaag gctttttaca gactgtggtc ccttggaatc ctcttctctt tgtgactaca 1500  
47 gaaatgacat gaatgccagt aaaattgtcg atgacattcc tgatcgtcca gcaggcattg 1560  
48 gagtatattc agctatatgg cagttatgcc tggcactcat atttaaaatc ataattgacag 1620  
49 tattcaattt tggcatcaag gttccatcag gcttggtcat cccagcatg gccattggag 1680  
50 cgatgcagag aaggattgtg gggattgcgg tggagcagct tgctactat caccacgact 1740  
51 ggtttatctt taaggagtgg tgtgaggctg gggctgattg cattacacct ggcctttatg 1800  
52 ccattggttg tgctgtgca tgcctagggt gtgtgacaag aatgactgtc tccctgggtg 1860  
53 ttattgtttt tgagcttact ggaggcttgg aatatattgt tcccttatg gctgcagtca 1920  
54 tgaccagtaa atgggttggg gatgcctttg gcagggaagg catttatgaa gcacacatcc 1980

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Input Set : A:\Seqlist.txt

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55 gattaaatgg ataccctttc ttggatgcaa aagaagaatt cactcatacc accctggctg 2040
56 ctgacgttat gagacctcga aggaatgata ctcccttagc tgtcctgaca caggacaata 2100
57 tgacagtgga tgatatagaa aacatgatta atgaaaccag ctacaatgga tttcctgtca 2160
58 taatgtcaaa agaatctcag agattagtgg gatttgcctt cagaagagac ctgacaattg 2220
59 caatagaaaag tgccaggaaa aaacaagaag gtatcggttg cagtctctcg gtgtgttttg 2280
60 cacagcacac cccatctctt ccagcagaaa gtcctcggcc attgaagctt cgaagcattc 2340
61 ttgacatgag cctttttaca gtgacagacc acaccccaat ggagattgtg gtggatattt 2400
62 tccgaaagct gggactgagg cagtgccttg taactacaaa tgggcgcctc cttggcatta 2460
63 taacaaaaaa agatatcttc cggcatatgg cccagacggc aaaccaagac cccgcttcaa 2520
64 taatgttcaa ctgaatctca cagatgagga gagagaagaa acggaagagg aagtttattt 2580
65 gttgaatagc acaactcttt aacctgaggg agtcatctac ttttttttcc tccttttaca 2640
66 aaaaagaaaag gaaatataaa agccgggttt ttgcaacatg gtttgcaaat aatgctgggtg 2700
67 gaatggagga gttgtttggg gagggaaaag agagagaagg aaaggagtga ggtatttccc 2760
68 gtctaacaga aagcagcgta tcaactccta ttgttctgca ctggatgcat tcagctgagg 2820
69 atgtgcctga tagtgcaggc ttgcgcctca acagagatga cagcagagtc ctcgagcacc 2880
70 tggcctgttg ctccaacatt gcaaaagacac attatcagtc cctatttcta gagggattac 2940
71 tttgaattga gccatctata aaactgcaag gtcttgcctt tttttttaat caaaactgtt 3000
72 ctgtttaatt catgaattgt atagttaagc attacctttc tacattccag aagagccttt 3060
73 atttctctct ctctctctct ctctctctct ctctctactg agctgtaaca aagcctcttt 3120
74 aaatcggtgt atccttttga agcagtcctt tctcatattg agatgtactg tgattttact 3180
75 gaggtttcat cacaagaagg gagtgtttct tgtgccatta accatgtagt ttgtaccatc 3240
76 actaaatgct tggaacagta cacatgcacc acaacaaagg ctcatcaaac aggtaaagtc 3300
77 tcgaaggaag cgagaacgaa atctctcatt gtgtgccgtg tggctcaaaa ccgaaaacaa 3360
78 tgaagcttgg ttttaaagga taaagttttc ttttttggtt tcctctcaga ctttatggat 3420
79 aatgtgaccg ggtcttatgc aaattttcta tttctaaaac tactactatg atatacaagt 3480
80 gctgttgagc ataattaaat aaaatgctgc tgctttgaca gtaaagagaa aaaaaaaaaa 3540
81 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3600
82 aaaaaaaaaa aaaaaaaaaa aaaaaa 3625

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84 &lt;210&gt; SEQ ID NO: 2

85 &lt;211&gt; LENGTH: 791

86 &lt;212&gt; TYPE: PRT

87 &lt;213&gt; ORGANISM: Human

89 &lt;400&gt; SEQUENCE: 2

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91 1 5 10 15
92 Asn Ile Pro Leu Arg Glu Leu His Lys Arg Gly Thr His Tyr Thr Met
93 20 25 30
94 Thr Asn Gly Gly Ser Ile Asn Ser Ser Thr His Leu Leu Asp Leu Leu
95 35 40 45
96 Asp Glu Pro Ile Pro Gly Val Gly Thr Tyr Asp Asp Phe His Thr Ile
97 50 55 60
98 Asp Trp Val Arg Glu Lys Cys Lys Asp Arg Glu Arg His Arg Arg Ile
99 65 70 75 80
100 Asn Ser Lys Lys Lys Glu Ser Ala Trp Glu Met Thr Lys Ser Leu Tyr
101 85 90 95
102 Asp Ala Trp Ser Gly Trp Leu Val Val Thr Leu Thr Gly Leu Ala Ser
103 100 105 110
104 Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala Ala Asp Trp Met Thr Asp
105 115 120 125

```

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```

106 Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu Trp Tyr Asn His Glu Gln
107      130                      135                      140
108 Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe Glu Glu Arg Asp Lys Cys
109 145                      150                      155                      160
110 Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile Ile Gly Gln Ala Glu Gly
111                      165                      170                      175
112 Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met Tyr Ile Phe Trp Ala Leu
113                      180                      185                      190
114 Ser Phe Ala Phe Leu Ala Val Ser Leu Val Lys Val Phe Ala Pro Tyr
115                      195                      200                      205
116 Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys Thr Ile Leu Ser Gly Phe
117      210                      215                      220
118 Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr Leu Met Ile Lys Thr Ile
119 225                      230                      235                      240
120 Thr Leu Val Leu Ala Val Ala Ser Gly Leu Ser Leu Gly Lys Glu Gly
121                      245                      250                      255
122 Pro Leu Val His Val Ala Cys Cys Cys Gly Asn Ile Phe Ser Tyr Leu
123                      260                      265                      270
124 Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys Lys Arg Glu Val Leu Ser
125                      275                      280                      285
126 Ala Ala Ser Ala Ala Gly Val Ser Val Ala Phe Gly Ala Pro Ile Gly
127      290                      295                      300
128 Gly Val Leu Phe Ser Leu Glu Glu Val Ser Tyr Tyr Phe Pro Leu Lys
129 305                      310                      315                      320
130 Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu Val Ala Ala Phe Val Leu
131                      325                      330                      335
132 Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg Leu Val Leu Phe Tyr Val
133                      340                      345                      350
134 Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu Leu Phe Pro Phe Ile Leu
135                      355                      360                      365
136 Leu Gly Val Phe Gly Gly Leu Trp Gly Ala Phe Phe Ile Arg Ala Asn
137      370                      375                      380
138 Ile Ala Trp Cys Arg Arg Arg Lys Ser Thr Lys Phe Gly Lys Tyr Pro
139 385                      390                      395                      400
140 Val Leu Glu Val Ile Ile Val Ala Ala Ile Thr Ala Val Ile Ala Phe
141                      405                      410                      415
142 Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser Glu Leu Ile Lys Glu Leu
143                      420                      425                      430
144 Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser Ser Leu Cys Asp Tyr Arg
145                      435                      440                      445
146 Asn Asp Met Asn Ala Ser Lys Ile Val Asp Asp Ile Pro Asp Arg Pro
147      450                      455                      460
148 Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp Gln Leu Cys Leu Ala Leu
149 465                      470                      475                      480
150 Ile Phe Lys Ile Ile Met Thr Val Phe Thr Phe Gly Ile Lys Val Pro
151                      485                      490                      495
152 Ser Gly Leu Phe Ile Pro Ser Met Ala Ile Gly Ala Ile Ala Gly Arg
153                      500                      505                      510
154 Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp

```

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```

155          515          520          525
156 Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro
157          530          535          540
158 Gly Leu Tyr Ala Met Val Gly Ala Ala Ala Cys Leu Gly Gly Val Thr
159 545          550          555          560
160 Arg Met Thr Val Ser Leu Val Val Ile Val Phe Glu Leu Thr Gly Gly
161          565          570          575
162 Leu Glu Tyr Ile Val Pro Leu Met Ala Ala Val Met Thr Ser Lys Trp
163          580          585          590
164 Val Gly Asp Ala Phe Gly Arg Glu Gly Ile Tyr Glu Ala His Ile Arg
165          595          600          605
166 Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys Glu Glu Phe Thr His Thr
167          610          615          620
168 Thr Leu Ala Ala Asp Val Met Arg Pro Arg Arg Asn Asp Pro Pro Leu
169 625          630          635          640
170 Ala Val Leu Thr Gln Asp Asn Met Thr Val Asp Asp Ile Glu Asn Met
171          645          650          655
172 Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro Val Ile Met Ser Lys Glu
173          660          665          670
174 Ser Gln Arg Leu Val Gly Phe Ala Leu Arg Arg Asp Leu Thr Ile Ala
175          675          680          685
176 Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly Ile Val Gly Ser Ser Arg
177          690          695          700
178 Val Cys Phe Ala Gln His Thr Pro Ser Leu Pro Ala Glu Ser Pro Arg
179 705          710          715          720
180 Pro Leu Lys Leu Arg Ser Ile Leu Asp Met Ser Pro Phe Thr Val Thr
181          725          730          735
182 Asp His Thr Pro Met Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly
183          740          745          750
184 Leu Arg Gln Cys Leu Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile
185          755          760          765
186 Thr Lys Lys Asp Ile Leu Arg His Met Ala Gln Thr Ala Asn Gln Asp
187          770          775          780
188 Pro Ala Ser Ile Met Phe Asn
189 785          790
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193 <211> LENGTH: 65359
194 <212> TYPE: DNA
195 <213> ORGANISM: Human
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199 <222> LOCATION: (1)...(65359)
200 <223> OTHER INFORMATION: n = A,T,C or G
202 <400> SEQUENCE: 3
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205 ttaccgggga ggatttcccc catcagtgag tgctgactgt cattttcatt ctttatgatc 180
206 aagttgtaga tcaggaaaaa caagttaaga gagtgcctac aaataccggg aaaacttgtg 240
207 gatagatttt cattttttat gtaaagacat ataagaacat gaatggtata aaaacaaaat 300

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```

208 cctttataaa tgccatacaa ttatatatatt agaaaaatta tatggtggta aaacataata 360
209 aagaaccaca cactcccaaa ttacattga gctaatttag tacagtttag ctttgtcaaa 420
210 gctttccttg tttaaaaaaa ctattggctc agtgtgcagg aaggagcata ggagaaaaaa 480
211 ttgccaagaa tatttgaaaa atacagaaaa taaagaaaaa aatcacctac tatcctatca 540
212 aaaattttta tagctagaat caggataaga tagaatattc ctgtggcagt aattctagtc 600
213 tatattcctt tcctggaacc ctgtctccca aatttcaggt gagattttat aagaagctct 660
214 gtttatctga gatttaaaat ataaaaactt gatttaacct atacagtttt ttaaaaagac 720
215 cctaaataag taaaatttag tactccacaa attgaagaga atttctctct tctctttact 780
216 gccctctgag ttttctcttt ccttctctca cctccaattt tcatgtaaac actttcagtt 840
217 cgagtggacc ttagagattg tctcattcaa tacttttagga aaacaaattt tatagaaccc 900
218 ttgagttctg tgggaattgct tctaataaac aacacctttt gttgttggtg ttgttttagtg 960
219 aactgtgtga acaggcattt caggaggaga atctcccagt ctagagggaat cctctcagag 1020
220 gtagctataa aatattgaac tctgatcttc aataagcatt gtgcgggttt tgtttttgtt 1080
221 tttaatgaca gttttaaaca agaaagtgtc tttatttctg aacttcataa aaatttctat 1140
222 taaagagaca atttctgaat ttataacaa tttctagaac agttgagtac ctcaacttga 1200
223 gacacatttt tgctaaaagt taaaaacaca aaacccttat gagataaaat aggaagctag 1260
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228 ttatagagta tttttttttt atttttaata gacttagaac caagtttctt gagaaacctt 1560
229 tggcatattg tagttttttt atggctatga ctacatgac attactgtat aaaactagta 1620
230 cattctctcg taaaaccaca caaacttact agagtgtgc tctcattttt ctacattaga 1680
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233 ccaactgatc taccgaagct gtattgtgag tgtttcaaaa ttctcaaac agttttgtgt 1860
234 gttgtacttg gagcttagtc attgtcatac gtagcaggac ctgattaaga aggotgtgcc 1920
235 gcctctaagc cttgctagat tgtagccact agcaaccagg ctgcaataat ttccctttga 1980
236 tgacatcatc cactgtggaa gaaccaggtt gcttcagcga gtcgaactac agttttaacc 2040
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238 ttttaagcta gcaagctttt tctttttctt tttctcttc tatttaaaaa ttctaactat 2160
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242 gtacgttgtt tagttgccct ggggtgttag taaggggaaa atgcaacctt ctgaatggtt 2400
243 gtgtagccat cctgattgt tttctctgtg cagattagta ctgcttcaga tcaogtcggg 2460
244 ctccgactcc atcttctgca tgaaaatctt ctttctaact ctgaaaatga attaatctgc 2520
245 ttttacagcc aactaaagtc gtgttggttg gcatctaaaa agtaatgttt ttcttcttc 2580
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255 tataaactca ccttatgatt taaccacaaac ttttatttgt aagtatataa ggaagtaata 3180
256 atgtttttct aatataatta gctgcttta tttaaaatat actttgtgtt ctgataacac 3240

```

FJD:

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\03302001\I804472.raw

L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3